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S/170/63/006/002/017/018
B108/B186

26.2223

AUTHOR: Trofimov, A. S.

TITLE: Thermal stresses in blocks of rectangular cross section
with heat production

PERIODICAL: Inzhenerno-fizicheskiy zhurnal, v. 6, no. 2, 1963, 127-130

TEXT: Knowing the heat separation q_v and the temperature field $T(x,y)$, for example in a nuclear reactor part of rectangular or nearly rectangular cross-section of area $2a$ by $2b$ ($1 > 3a$, $a < b$), one can determine the thermal stresses in it. This problem is here approached for zero axial temperature gradient (plane deformation). The axial stress on a free rectangular prism is then

$$\sigma_z = \alpha E \left[\frac{1}{4ab} \int_{-a}^a \int_{-b}^b T dx dy - T(x,y) \right] + (\sigma_x + \sigma_y) (1).$$

The stress functions

$$\sigma_x = \frac{\partial^2 \Phi}{\partial y^2}; \quad \sigma_y = \frac{\partial^2 \Phi}{\partial x^2}; \quad \tau_{xy} =$$

$$= -\frac{\partial^2 \Phi}{\partial x \partial y} \quad (2)$$

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are determined by the equation

$$\nabla^4 \Phi + \frac{\alpha E}{1-\nu} \nabla^2 T = 0,$$

$$\nabla^4 = \frac{\partial^4}{\partial x^4} + 2 \frac{\partial^4}{\partial x^2 \partial y^2} + \frac{\partial^4}{\partial y^4}; \quad (3),$$

$$\nabla^2 = \frac{\partial^2}{\partial x^2} + \frac{\partial^2}{\partial y^2},$$

with the boundary conditions at the outer surface $\phi = \frac{\partial \phi}{\partial n} = 0$. In a steady process $\nabla^2 T = -q_v/\lambda$, which for $q_v = \text{const}$ gives for the dimensionless stress function $u = \phi \lambda (1-\nu)/\alpha E b q_v$ the problem:

$$\nabla^4 u = 1 \quad \begin{array}{l} -c \leq x \leq c, \\ -1 \leq y \leq 1, \end{array}$$

$$x = \pm c = \pm \frac{a}{b} \quad u = \frac{\partial u}{\partial x} = 0, \quad (4)$$

$$y = \pm 1 \quad u = \frac{\partial u}{\partial y} = 0$$

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This is solved by variation with the n-th approximation of $u(x,y)$ assumed in the form $u_n = (x^2 - c^2)^2 (y^2 - 1)^2 (a_1 + a_2 x^2 + a_3 y^2 + \dots)$. The coefficients a_k are given by the equation

$$\int_{-c}^c dx \int_{-1}^1 \left[\nabla^4 \sum_{k=1}^n a_k \varphi_k - 1 \right] \varphi_s dy = 0, \quad s=1, 2, \dots, n, \quad (6)$$

$\varphi_1 = (x^2 - c^2)^2 (y^2 - 1)^2$; $\varphi_2 = \varphi_1 x^2$; $\varphi_3 = \varphi_1 y^2$
These coefficients were numerically calculated up to the third term.
There are 1 figure and 2 tables.

SUBMITTED: August 7, 1962

Card 3/3

TROFIMOV, A.S.

Heat conductivity of multilayer heat producing elements. Inzh.-fiz.
zhur. 5 no.4:93-96 Ap '62. (MIRA 1584)
(Heat-Conduction) (Nuclear reactors)

TROFIMOV, ALEKSEI SERGEYEVICH

TROFIMOV, Aleksey Sergeyevich; ANTONOV, V., redaktor; DANILINA, A.,
tekhnicheskii redaktor

[Workers' movement in Russia, 1861-1894] Rabochae dvizhenie v Rossii,
1861-1894 gg. Moskva, Gos.izd-vo polit-lit-ry, 1957. 198 p.
(MLRA 10:9)

(Labor and laboring classes--History)

GROMOV, B.F.; TROFIMOV, A.S.

Heat transfer in nuclear reactors. Inzh.-fiz. zhur. 7 no. 8: 31-36
Ag '64. (MIRA 17:10)

1. Fiziko-energeticheskiy institut, Obninsk.

ACCESSION NUMBER: A16001800 SOURCE CODE: UR/0089/65/019/006/0537/0540

AUTHOR: Kurbatov, I. M. ; Leonchuk, M. P. ; Trofimov, A. S. 46

ORG: none

TITLE: The optimum control of thermal processes in nuclear reactors 19

SOURCE: Atomnaya energiya, v. 19, no. 6, 1965, 537-540

TOPIC TAGS: nuclear reactor operation, nuclear reactor ~~characteristic~~, nuclear reactor control, *optimal control*

ABSTRACT: The authors studied earlier (Zh. vychisl. matematiki i matem. fiziki, 5, 558, 1965) the optimum response control of transient thermal processes in nuclear reactors. The control was carried out by changing the flow of the coolant $G(\gamma)$. The present note is a continuation of the investigation of the dynamic properties of the thermal model of nuclear reactors serving as a component of the control system. The influence of heat exchangers, circulation pumps and other components on the transient processes in the reactor is not taken into account. For a given linear law of reactor power change $q(\gamma)$ a determination is made of $G(\gamma)$ to assure, during the transient process, the minimum deviation from the linear temperature variation at the output. The same problem is also considered for arbitrary $q(\gamma)$. The results are given as curves of optimum reactor power increase and decrease for different reactor parameters. Two separate families of curves correspond to the minimum transient

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UDC:621.039.56
2

- 1 - 50

ACC NR: AP6001800

time and minimum output temperature deviation criteria. Orig. art. has: 18 formulas and 2 figures.

SUB CODE: 20 / SUBM. DATE: 13Feb65 / ORIG REF: 004

CC

Card

2/2

L 18797-63 EWT(1)/FCC(w)/FS(v)-2/SPAO(d)/BDS/ES(a)/ES(j)/ES(c)/ES(k)/
 EEO-2/ES(v)/ES(v)-2 AFFTC/AFMTC/ASD/ESD-3/SSD Pe-4/Pc-4/Pg-4/Pl-4/P1-4/Po-4/
 Pq-4 TT/GW B/0010/63/000/004/0006/0006

ACCESSION NR: AP3006055

AUTHOR: Trofimov, B.

TITLE: Attack in the cosmos

SOURCE: Aviatsiya i kosmonavtika, no. 4, 1963, 6

TOPIC TAGS: antisatellite defense, detection satellite, space warfare,
 reconnaissance satellite

ABSTRACT: The author examines the problem of determining the task of the enemies
 satellites shortly after they are placed in orbit -- are they for reconnaissance,
 do they carry an atomic bomb or are they for peaceful purposes. This is impor-
 tant for the defense of the country. Since it is not possible to do this from
 the earth with present equipment, an observation satellite is needed. This
 satellite would have a television camera and Geiger counter installed in it and
 could be moved from one orbit to another on command from earth. When an enemy
 satellite is placed in orbit the observation satellite would be moved into the
 same orbit and would send back television pictures to a command center. If,

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ACCESSION NR: AP3006055

after viewing the satellite and getting the radioactive count, it was determined that its task was a danger to the national security the order would be given to destroy it. The observation satellite would be moved into another orbit and a manned satellite would be sent into orbit to carry out the destruction.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 11 Sep 63

ENCL: 00

SUB CODE: 00

NO REF SOV: 000

OTHER: 000

Card 2/2

TROFIMOV, P.I.

A study of the effect exerted on the properties of a finite group by the greatest common divisor of the orders of all its classes of noninvariant conjugate Sylow subgroups. Sib.mat. zhur. 4 no.1:236-239 Ja-F '63. (MIRA 16:2)
(Groups, Theory of)

"Extinct Pigs of the Group of Microsthenes." Thesis for degree of Cand. Biological Sci. Sub 7 Dec 50, Paleontological Inst. Acad Sci USSR

Summary 71, 4 Sep 52, Dissertations Presented for Degrees in Science and Engineering in Moscow in 1950. From Vechernyaya Moskva, Jan-Dec 1950.

1. TROFIMOV, B. A.
2. USSR (600)
4. Asia, Central - Swine, Fossil
7. New Entelodontidae from Mongolia and Kazakhstan, Trudy Paleont. inst. 41, No. 1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Unclassified.

TROFIMOV, V.G., inzh.

Training site for teaching safety techniques in electric power
distribution. Energetik 12 no.2:23-25 F '64. (MIRA 17:4)

1. TROFIMOV, B. A.
2. USSR (600)
4. Mongolia - Insectivora, Fossil
7. The genus Pseudictops, an unusual insectivore from Lower Tertiary deposits of Mongolia. Trudy Paleont. inst. 41, No. 1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

TROFIMOV, B.A., kandidat biologicheskikh nauk.

~~trofimov, b.a.~~

Early Tertiary mammals of the Soviet Far East. Priroda 42 no.12:111-112 D
'53. (MLRA 6:11)

1. Paleontologicheskii institut Akademii nauk SSSR.
(Soviet Far East--Paleontology) (Paleontology--Soviet Far East)

USSR/ Geology - Paleontology

Card : 1/1

Authors : Trofimov, B. A.

Title : Life in geological periods

Periodical : Priroda, 6, 31 - 46, June 1954

Abstract : Report presents a historical analysis of the stages of development of the organic world. The animal and plant living during Paleozoic, Mesozoic, Kainozoic and Pleistocene eras are described theoretically. Table, illustrations.

Institution :

Submitted :

TROFIMOV, B.A.

Discovery of ancient Tertiary mammals in the Soviet Far East.
Biol.MOIP. Otd.geol. 29 no.3:102-103 My-Je '54. (MLRA 7:8)
(Soviet Far East--Paleontology) (Paleontology--Soviet Far
East)

TROFIMOV, B.A.

Fossil swine of the genus *Microstonyx*. Trudy Paleont. inst. 47:
61-99 '54. (MLRA 7:10)
(Swine, Fossil)

TROFIMOV, Boris Aleksandrovich, kandidat biologicheskikh nauk; BENYUMOV, O.M
Redaktor; ISLENT'YEVA, P.G., tekhnicheskij redaktor

[Principal stages in the evolution of the animal world] Osnovnye
etapy razvitiia zhivotnogo mira. Moskva, Izd-vo "Znanie," 1955.
31 p. (Vsesoiuznoe obshchestvo po rasprostraneniu politicheskikh
i nauchnykh znaniy. Ser. 3, no.57) (MLRA 8:12)
(Evolution)

17-0818000, 13.11.
FLEROV, K.K.; TROFIMOV, B.A.; YANOVSKAYA, N.M.; ASTROV, A.V., redaktor;
MARKOV, K.K., professor; MULIN, Ye.V., tekhnicheskiy redaktor

[History of mammalian fauna of the quaternary period] Istorika
fauny mlekopitalushchikh v shetvertichnom periode. [Moskva] Izd-
vo Moskovskogo univ., 1955. 37 p. (MIRA 9:3)
(Paleogeography)

TROFIMOV, B.A.

Origin and development of Quaternary mammals of the temperate
and northern zones. Trudy Kom.chetv.per.12:106-120 '55.
(Mammals, Fossil) (MIRA 9:4)

USSR/Geology - Paleontology

Card 1/1 Pub. 86 - 24/39

Authors : Trophimov, B. A., Cand, Biol. Sc.

Title : New data about ancient land vertebrates

Periodical : Priroda 44/3, 115 - 116, Mar 1955

Abstract : The transition from sea vertebrates to land vertebrates during the Devonian period is discussed in the light of recent paleontological finds, particularly those made by Danish scientists in Greenland. These finds were included in a collection of 170 specimens, which were studied and the conclusions published in 1952 by the Danish paleontologist Erik Jarvik. Two Danish references, (1932 - 1952). Illustrations.

Institution : Academy of Sciences, and USSR, Paleontological Institute

Submitted :

TROFIMOV, B.A., inzh.

Present state and development of modern electric
propulsion systems in foreign countries. Trudy VTO
sud.prom. 8 no.5:33-56 '59. (MIRA 13:7)
(Ship propulsion, Electric)
(Marine turbines)

TROFIMOV, B.A.

Find of the Hipparion fauna in Kirghizistan. Paleont. zhur. no.1:145
'59. (MIRA 13:1)

(Kochkor Valley--Horses, Fossil)

BUTOMA, B.Ye.; SOKOLOV, P.A.; BALAYEV, D.N.; SERGEYEV, N.M.; SHUMSKIY, I.A.;
 TYAPKIN, M.Ya.; SMIRNOV, V.A.; PIROGOV, N.I.; FEDOROV, N.A.;
 GOLYASHKIN, G.S.; KUZ'MIN, A.P.; AKULINICHEV, V.P.: brigadir; GORBENKO,
 Ye.M.; BYSTREVSKIY, L.M., inzh.; STEPANOV, P.S., brigadir; Us, I.S.,
 brigadir-sudoborshchik, deputat Verkhovnogo Soveta SSSR; USTINOV,
 P.D., slesar'-sborshchik; FINOGENOVA, N.Ya., tokar'; LERNER, M.;
 ALEKSEYEV, R.Ye.; SIVUKHIN, K., starshiy master; OSTAF'YEV, A.I.;
 TROFIMOV, B.A., inzh.; KOVRYZHKIN, V.F., inzh.; MOISEYEV, A.A., prof.:
 GOLUBEV, N.V.; MOGILEVICH, V.I.; ANDRYUTIN, V.I.; ANDRIYEVSKIY, M.I.;
 MATSKEVICH, V.D., dots.

Shipbuilders prepare for the 21st Extraordinary Congress of the CPSU.
 Sudostroenie 25 no.1:1-25 Ja '59. (MIRA 12:3)

1. Predsedatel' Gosudarstvennogo komiteta Soveta Ministrov SSSR po sudostroyeniyu, ministr SSSR (for Butoma). 2. Nachal'nik upravleniya sudostroitel'noy promyshlennosti Leningradskoy oblasti (for Sokolov).
3. Direktor Baltiyskogo sudostroitel'nogo zavoda im. S.Ordzhonikidze (for Balayev). 4. Nachal'nik tsekhov Baltiyskogo sudostroitel'nogo zavoda im. S. Ordzhonikidze (for Sergeyev, Shumskiy). 5. Nachal'nik mekhanicheskogo tsekh Baltiyskogo sudostroitel'nogo zavoda im. S. Ordzhonikidze (for Tyapkin). (Continued on next card)

BUTOMA, B.Ye.---(continued) Card 2.

6. Brigada kommunisticheskogo truda Baltiyskogo sudostroitel'nogo zavoda im. S. Ordzhonikidze (for Smirnov). 7. Glavnyy inzhener Admiralteyskogo sudostroitel'nogo zavoda, Leningrad (for Pirogov). 8. Glavnyy inzhener sudostroitel'nogo zavoda im. A.A. Zhdanova (for Fedorov). 9. Nachal'nik elektrodnoy tsekha Sudostroitel'nogo zavoda im. A.A. Zhdanova (for Golyashkin). 10. Nachal'nik tsekha kommunisticheskogo truda sudostroitel'nogo zavoda im. A.A. Zhdanova (for Kuz'min). 11. Malyarnyy tsekh sudostroitel'nogo zavoda im. A.A. Zhdanova (for Akulinichev). 12. Glavnyy inzhener Nikolayevskogo sudostroitel'nogo zavoda im. I.I. Nosenko (for Gorbenko). 13. Nikolayevskiy sudostroitel'nyy zavod im. I.I. Nosenko (for Bystrevskiy, Us, Ustinov, Finogenova). 14. Slesarno-sbornochnaya brigada Nikolayevskogo sudostroitel'nogo zavoda im. I.I. Nosenko (for Stepanov). 15. Zamestitel'nachal'nika konstruktorskogo byuro sudostroitel'nogo zavoda "Krasnoye Sormovo" (for Lerner). 16. Glavnyy konstruktor konstruktorskogo byuro sudostroitel'nogo zavoda "Krasnoye Sormovo" (for Alekseyev). 17. Sudostroitel'nyy zavod "Krasnoye Sormovo" (for Sivukhin). 18. Direktor sudostroitel'nogo zavoda "Leninskaya kuznitsa" (for Ostaf'yev). 19. Sekretar' partkoma Tsentral'nogo nauchno-issledovatel'skogo instituta (for Trofimov). (Continued on next card)

BUTOMA, B.Ye.--(continued) Card 3.

20. Predsedatel' Leningradskogo oblastnogo pravleniya Nauchno-tekhnicheskogo otdela sudostroitel'noy promyshlennosti (for Moiseyev).
 21. Glavnyye inzheneriy Konstruktorskogo byuro (for Golubev, Andryutin).
 22. Glavnyy konstruktor Konstruktorskogo byuro (for Mogilevich).
 23. Nachal'nik TSentral'nogo tekhniko-konstruktorskogo byuro (for Andriyevskiy).
 24. Zamestitel' direktora Leningradskogo korablestroitel'nogo instituta po uchebnoy chasti (for Matskevich).
- (Shipbuilding)

TROFIMOV, B.A., kandidat biologicheskikh nauk.

Paleontological encyclopedie in many volumes "Outline of paleontology."
Reviewed by B.A. Trofimov. Priroda 46 no.6:101 Je '57. (ILRA 10:7)

1. Paleontologicheskii institut Akademii nauk SSSR (Moskva).
(Paleontology--Dictionaries)

TROFIMOV, Boris Aleksandrovich; FLEROV, K.K., doktor biologicheskikh nauk,
professor, nauchnyy redaktor; GOLUBKOVA, V.A., redaktor; KHAR'KOV,
S.F., tekhnicheskiy redaktor; YUSFINA, N.L., tekhnicheskiy redaktor

[Life in distant ages] Zhizn' v glubinakh vekov. Moskva, Gos. izd-vo
kul'turno-prosv. lit-ry, 1957. 148 p. (MIRA 10:8)
(Paleontology)

SHOSTAKOVSKIY, M.F.; ATAVIN, A.S.; TROFIMOV, B.A.

Vinyl ethers of di- and triethylene glycols. Zhur. ob. khim.
34 no.7:2112-2116 J1 '64 (MIRA 17:8)

1. Irkutskiy institut organicheskoy khimii Sibirskogo otdeleniya AN SSSR.

SHOSTAKHOVSKIY, M.F.; ATAVIN, A.S.; PROKOP'YEV, B.V.; TROFIMOV, B.A.;
LAVROV, V.I.; DERIGLASOV, N.M.

Kinetics of hydrolysis of monovinyl ethers of ethylene glycol,
di-, and triethylene glycols. Izv. AN SSSR. Ser. khim. no.8:
1485-1487 '65. (MIRA 18:9)

1. Irkutskiy institut organicheskoy khimii Sibirskogo otdeleniya
AN SSSR.

SHOSTAKOVSKIY, M.F.; ATAVIN, A.S.; NIKITIN, V.M.; TROFIMOV, B.A.;
KEYKO, V.V.; LAVROV, V.I.

Synthesis and some transformations of vinyl silyl ethers of
glycols. Izv. AN SSSR. Ser. khim. no.11:2049-2051 '65.

(MIRA 18:11)

1. Irkutskiy institut organicheskoy khimii Sibirskogo otdeleniya
AN SSSR.

ACC NR: AP6030561 EWT(m)/EWP(j) RM (A,N) SOURCE CODE: UR/0413/66/000/016/0033/0034

INVENTOR: Shostakovskiy, M. F.; Atavin, A. S.; Lavrov, V. I.; Trofimov, B. A. 22

ORG: none B

TITLE: Preparative method for silicon-containing acetylenic vinyl ethers, Class 12, No. 184858, [announced by the Irkutsk Institute of Organic Chemistry, SO AN SSSR (Irkutskiy institut organicheskoy khimii SO AN SSSR)] 1

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 16, 1966, 33-34

TOPIC TAGS: acetylenic vinyl ether, silicon synthesis, ACETYLENE, VINYL COMPOUND, ETHER.

ABSTRACT: An Author Certificate has been issued for a method for preparing silicon-containing acetylenic vinyl ethers. The method involves the reaction of sodium- or magnesium halide derivatives of acetylenic vinyl ethers with halosilanes in an inert solvent, e.g., in tetrahydrofuran. [B0]

SUB CODE: 07/ SUBM DATE: 20May65/

Card 1/1

mjs

UDC: 547.345.07

SHOSTAKOVSKIY, M.F.; ATAVIN, A.S.; TROFIMOV, B.A.; LAVROV, V.I.

Kinetics of acido-catalytic hydrolysis of some substituted
1,3-dioxolanes. Izv. SO AN SSSR no.3:93-99 '65.

(MIRA 18-8)

1. Irkutskiy institut organicheskoy khimii Sibirskogo
otdeleniya AN SSSR.

SHOSTAKOVSKIY, M.F.; ATAVIN, A.S.; TROFIMOV, B.A.; VYALYKH, Ye.P.

Some conversions of alkoxyasilanes and alkoxyacetoxysilanes
containing acetal rings. Zhur. ob. khim. 35 no.10:1759-1763
O '65. (MIRA 18:10)

1. Irkutskiy institut organicheskoy khimii Sibirskogo
otdeleniya AN SSSR.

SHOSTAKOVSKIY, P.F.; ALEXIN, A.S.; PROKOPIYEV, B.V.; TROFIMOV, P.A.; LAVROV,
V.I.; IFRIGLAZOV, I.M.

Kir.: The isotopic effect of deuterium in the hydrolysis of vinyl
ethers Dokl. AN SSSR 165 no.2:1412-1415 Aug '65.

(MIRA 18:8)

1. Irkutskiy Institut organicheskoy Khimii Sibirskogo otdeleniya
AN SSSR. 2. Chlen-korrespondent AN SSSR (for Shostakovskiy).

ATAVIN, A.S.; TROFIMOV, B.A.

One preparative method for obtaining vinyl ethers using calcium carbide. Zhur. prikl. khim. 37 no.12:2706-2708 D '64.

(MIRA 18:3)

SHOSTAKOVSKIY, M.F.; ATAVIN, A.S.; LAVROV, V.I.; TROFIMOV, B.A.

Reaction of vinyl ethers containing a dialkylaminomethoxy group
with ethyl mercaptan. Zhur. org. khim. 1 no.6:1169-1170 Je '65.
(MIRA 18:7)

1. Irkutskiy institut organicheskoy khimii Sibirskogo otdeleniya
AN SSSR.

SHOSTAKOVSKIY, N.F.; KATVIN, A.S.; TROFIMOV, B.A.; GUSEV, A.A.

Reaction of 2-methyl-1,3-dioxolane with hydrogen sulfide. 1st.
AN SSSR. Ser. khim. no.6:1072-1074 '65.

(MIRA 18:6)

1. Irkutskiy Institut organicheskoy khimii Sibirskogo otdeleniya
AN SSSR.

SHOSTAKOVSKIY, M.F.; ATAVIN, A.S.; TROFIMOV, B.A.; GUSAROV, A.V.; GLADKOVA,
G.A.

Interaction of mercaptans with cyclic acetals. Izv.AN SSSR. Ser. khim.
no.9:1686-1687 S '64. (MIRA 17:10)

1. Irkutskiy institut organicheskoy khimii Sibirskogo otdeleniya
AN SSSR.

AGAKHANYANTS, O. Ye.; PAKHOMOV, M.M.; TROFIMOV, A.K.

Paleogeography of the Pamirs during the Holocene. Izv. Vses. geog.
ob-va 96 no.6:505-509 N-O '64 (MIRA 18:1)

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SHOSTAKOVSKIY, M.F.; ATAVIN, A.S.; TROFIMOV, B.A.; LAVROV, V.I.

Reaction of the addition of glycols and polyethylene glycols to
vinyl butyl ether. Zhur. ob. khim. 35 no.4:613-615 Ap '65.
(MIRA 18:5)

1. Irkutskiy institut organicheskoy khimii Sibirskogo otdeleniya
AN SSSR.

SHOSTAKOVSKIY, M.F.; ATAVIN, A.S.; VYALYKH, Ye.P.; TROFIMOV, B.A.

Reaction of the monovinyl ethers of glycols with triethyltin chloride. Zhur. ob. khim. 35 no.4:751 Ap '65.

(MIRA 18:5)

1. Irkutskiy institut organicheskoy khimii Sibirskogo otdeloniya AN SSSR.

RUZHICHKA, Boguslav[Ruzicka, Bohuslav]; DITTLER, Karel;
TROFIMOV, B.A., otv. red.

[What fossils tell. Translated from the Czech] Ras-
skazyvaiut okamenelosti. Moskva, Nauka, 1964. 69 p.
(MIRA 18:1)

SHOSTAKOVSKIY, M.F.; ATAVIN, A.S.; THOFIMOV, B.A.; VYALYKH, Ye.P.

Synthesis of silicon containing cyclic acetals. Zhur. ob.
khim. 35 no.3:466-468 Mr '65. (MIRA 18:4)

1. Irkutskiy institut organicheskoy khimii Sibirskogo
otdeleniya AN SSSR.

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CIA-RDP86-00513R001756620018-5"

SHOSTAKOVSKIY, M.F.; ATAVIN, A. S.; TROFIMOV, B. A.

D 1,3-Dioxolane ring opening by organomagnesium compounds. *Izv. Akad. Khim.* 34 no.6:2082-2089 1964.

Synthesis of *E*-acetylenic β -ether alcohols. *Ibid.* 12089

(MIR 12:7)

2. Irkutskiy Institut organicheskoy khimii Sibirskogo otdeleya AN SSSR.

ORLOV, Yu.A., otv. red.; GABUNIYA, L.K., red.; TROFIMOV, B.A.,
red.; FLEROV, K.K., red.; YANOVSKAYA, N.M., red.

[Tertiary mammals] Tretichnye mlekopitalushchie. Moskva,
Izd-vo "Nauka," 1964. 57 p. (Its Doklady sovetskikh pa-
leontologov. Problema 8)
(MIRA 17:6)

1. International Geological Congress, 22d, 1964.

YAKUBOV, R.D.; AZERBAYEV, I.N.; ATAVIN, A.S.; TROFIMOV, B.A.; NAUMENKO, V.
Ye.

Hydration of acetylene by vinyl esters of ethylene and diethylene
glycols. Vest. AN Kazakh. SSR 19 no.7:21-31 J1 '63. (MIRA 17:2)

OKEANOV, B.N., inzh.; AYZENSHTADT, Ye.B., inzh.; TROFIMOV, B.A., inzh.

Using magnetic amplifiers in automatic control systems of electric
propeller drives. Sudostroenie 29 no.8:46-49 Ag '63.

(MIRA 16:10)

(Ship propulsion, Electric)

TROFIMOV, B.A.

Seventieth birthday of Vera Isaakovna Gromova. Paleont.zhur.
no.1:3-5 '61. (MIRA 14:8)
(Gromova, Vera Isaakovna, 1891-)

TROFIMOV, B.A.

Insectivores of the genus *Palaeoscaptor* from the Oligocene of Asia.
Trudy Paleont. inst. 77:35-40 '60. (MIRA 13:10)
(Mongolia--Hedgehogs, Fossil)

BELIAYEVA, Ye.I.; TROFIMOV, B.A.

Paleontology of mammals in the U.S.S.R. after the death of
A.A.Borisiak. Paleont.zhur. no.4:12-20 '62. (MIRA 16:1)

1. Paleontologicheskii institut AN SSSR.
(Mammals, Fossil)

TROFIMOV, Boris Aleksandrovich, kand. biol. nauk; GABOVA, K.K.,
rel.

[Bones of a dragon] Kosti drakona. Moskva, Izd-vo "Znanie"
1964. 45 p. (No. 6 v zhizni, nauke, tekhnike. XII Seriya:
Estestvoznaniye i religiya, no. 5) (MIRA 17:6)

TROFIMOV, B.N.

Method for measuring the surface current density. *ibid.* 1st. 30
no.10:1241-1242 '54. (MIRA 18:4)

1. Tsentral'nyy nauchno-issledovatel'skiy institut imeni akademika
Krylova.

SHOSTAKOVSKIY, M. F.; ATAVIN, A. S.; TROFIMOV, B. S.; ORLOVA, S. Ye.;
KEYKO, V. V.

Decomposition of 1-(α -chloroethoxy)-2-acetoxyethane. Zhur.
ov. Khim. 34 no.6:2089-2090 Je '64. (MIRA 17:7)

1. Irkutskiy institut organicheskoy khimii Sibirskogo otdeleniya
AN SSSR.

L 4868-66

ACC NR: AP5026494

SOURCE CODE: UR/0286/65/000/019/0026/0026

INVENTOR: Trofimov, B. Ye.

ORG: none

TITLE: Device for decoding pulse code modulated signals. Class 21, No. 175086

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 19, 1965, 26

TOPIC TAGS: pulse code modulation

ABSTRACT: The proposed device consists of an RC circuit connected to the emitter of a controlled rectifier and load (see Fig. 1). To improve decoding accuracy, a recti-

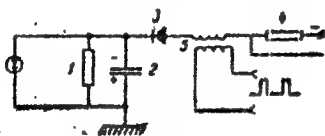


Fig. 1. Pulse code modulator

1 - Circuit resistor; 2 - storage capacitor;
3 - controlled rectifier emitter; 4 - load re-
sistance; 5 - pulse transformer.

fier is provided for the testing and recharge of the storage capacitor, a pulse trans-
former is connected to the rectifier control circuit, and a load resistor is connected
to the collector of the rectifier. Orig. art. has: 1 figure. [DW]

SUB CODE: EC DP/ SUBM DATE: 09Oct62/ ATD PRESS: 4/35
Card 1/1 UDC: 621.376.56

21198

S/106/60/000/007/001/003/XX

A189/A133

6.9500

AUTHOR: Trofimov, B. Ye.

TITLE: Quantization noises in coding signals of uniform spectral density

PERIODICAL: Elektrosvyaz', no. 7, 1960, 3-12

TEXT: The author carries out an analysis of the spectral distribution of mean-power quantization noises in pulse-code modulation of signals. The analysis revealed that the mean power of the quantization noises in the frequency band $0 \div \frac{\Omega_s}{2}$ is equal to $\frac{\delta^2}{12}$; where Ω_s - sampling frequency; and δ - quantum step. The power distribution of quantization noises within the frequency limits from 0 to $\frac{\Omega_s}{2}$ is practically uniform if $(\sigma \frac{\Delta\omega}{\Omega_s}) > \frac{0.3}{\mu}$; where σ - root-mean-square value of the normal stationary random process; $\Delta\omega$ - frequency band; and μ - a parameter defining the signal position in the band of the communication system. The distribution of noises is uniform regardless of the frequency when $\sigma \frac{\Delta\omega}{\Omega_s} > 0.15$. When $\sigma \frac{\Delta\omega}{\Omega_s} < 0.15$, the distribution of

Card 1/3

Quantization noises in coding signals of...

21198
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A189/A133

mean-power quantization noises is nonuniform and the noise level in the signal frequency band nonmonotonously depends on the signal position in the band of the communication system. The fluctuations of the noise level in the $\Delta\omega$ band increase substantially as the value of $\frac{\sigma}{\Omega_s} \Delta\omega$ is decreasing. The signal-to-noise ratio in the signal frequency band is monotonously increasing with the increase of its strength. At small $\frac{\sigma}{\Omega_s}$, the distribution of quantization noises in the band of the communication system is irregular and the signal-to-noise ratio is proportional to σ^3 . At larger $\frac{\sigma}{\Omega_s}$, the signal-to-noise ratio is increasing proportionally to σ^2 . The signal-to-noise ratio decreases monotonously in the signal frequency band with the increase of the signal frequency bandwidth $\Delta\omega$. An increase of the sampling frequency leads to the increase of the signal-to-noise ratio in the signal frequency band. The relation $\left(\frac{\sigma^2}{P_{i,i}}\right) = f(\Omega_s)$, shown in Figure 5, is determined by the mean value of the signal frequency ω_i . If $\frac{\omega_i}{\Delta\omega} < 1.7\frac{\sigma}{\Omega_s}$, then at small $\frac{\sigma}{\Delta\omega}$ values the

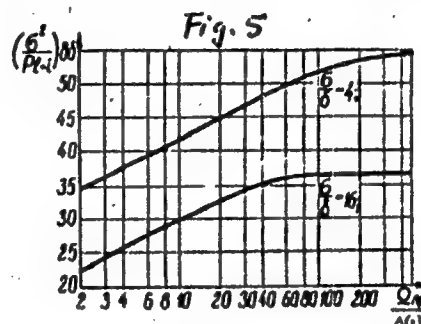
Card 2/3

Quantization noises in coding signals of...

21198
S/106/60/000/007/001/003/XX
A189/A133

signal-to-noise ratio increases in proportion to Ω_s . At $\frac{w_1}{\Delta w} \approx 1.7$, an increase of $(\frac{\sigma^2}{P_{1=1}})$ takes place nonmonotonously with the increase of Ω_s . In both cases, the noise level in the signal frequency band remains invariable starting from a certain Ω_s value and is equal to the noise level in this frequency band at amplitude quantization. Formulae and numerical examples for calculating quantization noises are given. There are 4 figures and 4 references: 3 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: Bennet, "Spectra of Quantized Signals" BSTJ, no. 3, 1948.

SUBMITTED: September 13, 1959.



Card 3/3

TROFIMOV, D.

Beginning of a large enterprise. Obshchestv. pit. no. 7:6-7 J1 '58.
(MIRA 11:7)

1. Direktor fabriki-zagotovochnoy Upravleniya obshchestvennogo
pitaniya g. Moskvy.
(Moscow--Restaurants, lunchrooms, etc.)

TROFIMOV, D.

Brief news. Shakht. stroi. no.12:32 D '57.
(Shaft sinking)

MIRA 11:1)

TROFIMOV, Dm.

English businessmen in Moscow. Vnesh.torg. 43 no.4:32-33 '63.
(MIRA 16:4)

(Russia--Commerce--Great Britain)
(Great Britain--Commerce--Russia)

LISITSA, E.M., inzh.; GORELYKH, A.G., inzh.; TROFIMOV, D.P., inzh.

Mechanized erection of concrete supports in the Krivoy Rogg.
Basin. Shakht. stroi. 7 no.11:19-22 N°63 (MIRA 17:7)

1. Krivirozhskiy filial Vsesoyuznogo nauchno-issledovatel'skogo instituta organizatsii i mekhanizatsii shakhtnogo stroitel'stva (for Lisitsa, Gorelykh). 2. Trest Krivbasshakhtoprokhodka (for Trofimov).

TROFIMOV, D.P., inzh.; KLYKOV, Ya.L., inzh.

Mining upraise shafts making use of a previously bored hole.
Shakht. stroi. 8 no.2:24-26 F '64. (MIRA 17:3)

1. Trest Krivbassshakhtoprokhodka (for Trofimov).

KAZAKOVICH, E.V., inzh.; TROFIMOV, D.P., inzh.

Effectiveness of using pipes in transporting concrete mixes
into shafts. Shakht. stroi. 4 no. 6:20-23 Je '60.
(MIRA 13:11)

1. Trest Kriybasshakhtoprokhodka.
(Shaft sinking) (Mine timbering)
(Concrete)

TRCFIMOV, L.P., inzh.

Brief news. Shakht. stroi. 5 no. 2:20-32 F '61. (INRA 14:2)
(Shaft sinking) (Underground construction)

TROFIMOV, D.P., inzh.

Basic ways of speeding shaft sinking in the Krivoy Rog Basin.
Ugol' Ukr. 2 no.2:45 F '58. (MIRA 13:3)
(Krivoy Rog--Shaft sinking)

SHELONIN, V.; TROFIMOV, E.

Antenna for twelve channels. Radio no.8:44-46 Ag '60.
(MIRA 13:9)

(Television--Antennas)

AID P - 4898

Subject : USSR/Aeronautics - Parachutism
Card 1/1 Pub. 58 - 4/12
Author : Trofimov, E., Master of Sports
Title : Parachute jumps into the sea
Periodical : Kryl. rod., 8, 6-7, Ag 1956
Abstract : The organization of training of parachutists in jumps into the sea in the Odessa aeroclub is outlined, and the carrying out of such jumps is described. One photo.
Institution : None
Submitted : No date

INYUTIN, Ivan Sergeyevich, kand. tekhn. nauk; TROFIMOV, F., red.;
ABBASOV, T., tekhn. red.

[Electrotensiometric measurements of stresses in plastic
components]Elektrotenzometricheskie izmereniia napriazhenii
v plastmassovykh detaliakh. Tashkent, Gosizdat UzSSR. 1961.
55 p. (MIRA 15:8)

(Tensiometers) (Plastics--Testing)

TROFIMOV, F.

MASHEZEMSKII, V. and TROFIMOV, F. Karelo-Finskaya SSR. [Moskva], Politizdat, 1940. 66 p.

CSt-H IN

JLC: DK511.K1823

So: LC, Soviet Geography, Part II, 1951/Unclassified.

TROFIMOV, F.

MASHEZERSKII, V. and F. TROFIMOV. Karelo-Finskaia SSR. Moskva Politizdat, 1940. 66 p.
CSt-H NN DLC: DK511.K18M3

SO: LC, Soviet Geography, Part I, 1951, Uncl.

TROFIMOV, F.

MASHEZERSKII, V. and F. TROFIMOV. Karelo-Finskaia SSR. Petrozavodsk, Gosizdat Karelo-Finskoi SSR, 1947. 123 p.

SO: LC, Soviet Geography, Part I, 1951, Uncl.

РСТАФОВ, В.М.; ТРОФИМОВ, Ф.А.; ТЕРЕНТ'ЙЕВ, А.П.

Spectropolarimetric study of a ketimide-enamine tautomeric system:
Dokl. AN SSSR 134 no.3:609-611 S '60. (MIRA 13:9)

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova.
2. Chlen-korrespondent AN SSSR (for Terent'yev).
(Tautomerism)

1 21779-08 E.T.(m)/EMF10: PM
ACC NR: AP6002548

(A)

SOURCE CODE: UR/0286/65/000/023/0047/0047

AUTHORS: Trofimov, F. A.; Bukhtarova, Z. V.; Kharitonov, V. M.; Dubynin, A. A.;
Kudryashov, S. A. 35
B

ORG: none

TITLE: A method for purifying polycapronamide. Class 39, No. 176680 15

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 23, 1965, 47

TOPIC TAGS: oligomer, polymer, vacuum refining, polyamide compound 16

ABSTRACT: This Author Certificate presents a method for purifying polycaproamide from low molecular impurities by means of a vacuum distillation. To improve the technological process, the cyclic oligomers of ϵ -aminocaproic acid, which are present in the impurities, are decomposed catalytically at a temperature of 250—260C.

SUB CODE: 11, 07/SUBM DATE: 14Jul64

Card 1/1 0-R

UDC: 678.675:126.025.4

DMITRIYEVA, L.A.; TROFIMOV, F.A.

Quantitative determining of the oil content of nylon fibers.
Khim. volok. no.2:62-63 '65. (MIRA 18:6)

1. VNIISV.

POTAPOV, V.M.; TROFIMOV, F.A.; TEREENT*YEV, A.P.

Stereochemistry. Part 12: Tautomerism of the product of
condensation of (-) α -phenylethylamine with acetoacetic ester.
Zhur.ob.khim. 31 no.10:3344-3353 0 '61. (MIRA 14:10)

1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova.
(Ethylamine) (Acetoacetic acid) (Tautomerism)

POTAPOV, V.M.; TROFIMOV, F.A.; TEREENT'YEV, A.P.

Stereochemical investigations. Part 14: Optically active
aryl- β -aminovinyl ketones and their tautomerism. Zhur.ob.khim.
33 no.3:853-859 Mr '63. (MIRA 16:3)
(Ketones--Optical properties)
(Tautomerism)

KOLESOV, S.N.; VVEDENSKAYA, L.A.; KHARIN, A.N., prof., retsenzent;
LOVTSOV, V.M., dots., retsenzent; LIKONTSEV, N.N., kand.
tekhn. nauk, retsenzent; PUTILOVA, I.N., prof., doktor
khim. nauk, red.; TROFIMOV, F.D., red.; BAKHTIYAROV, A.,
tekhn. red.

[Laboratory work in general chemistry] Praktikum po ob-
shchei khimii. Tashkent, Gos.izd-vo Uzb.SSR, 1960. 141 p.
(MIRA 17:4)

1. Zaveduyushchiy kafedroy khimii Taganrogskego radiotekhnicheskogo instituta (for Kharin). 2. Zaveduyushchaya kafedroy khimii Moskovskogo elektrotekhnicheskogo instituta (for Putilova).

BURNAYEV, Nadii Lutfrakhmanovich, kand. tekhn. nauk; TROFIMOV,
F.D., red.; ABBASOV, T., tekhn. red.

[Gravel and oil road surfaces of Uzbekistan] Graviino-
neftiarye dorozhnye pokrytiia Uzbekistana. Tashkent, Gos.
izd-vo Uzbekskoi SSR, 1961. 44 p. (MIRA 15:8)
(Uzbekistan—Pavements)

KARIMOV, Alim Aminovich, kand. tekhn. nauk; NAUMOV, Yuriy Ivanovich,
st. nauchn. sotr. TROFIMOV, F.D., red.

[New machines for overall mechanization of cotton growing]
Novye mashiny dlia kompleksnoi mekhanizatsii khlopkevod-
stva. Tashkent, Gos. izd-vo Uzbek SSR, 1961. 71 p.

(MIRA 17:5)

1. Zamestitel' direktora po nauchnoy chasti Instituta mekha-
niki AN Uzbek.SSR (for Karimov). 2. Institut mekhaniki
AN Uzbek SSR (for Naumov).

AZAT'YAN, Armen Arshavirovich; BABUSHKIN, L.N., prof., red.; TROFIMOV,
F.D., red.; AKHTYAMOVA, S., tekhn.red.

[Outstanding explorers of the nature of Central Asia: second
half of the 19th century] Vydaiushchiesia issledovateli prirody
Srednei Azii; vtoraiia polovina XIX v. Pod red. L.N.Babushkina.
Tashkent, Gos.izd-vo "Sredniaia i vysshiaia shkola" UzSSR. Pt.1.
1960. 170 p. (MIRA 14:2)
(Soviet Central Asia--Discovery and exploration)

BOGDANOV, Oleg Pavlovich, kand. biolog. nauk; SULTANOV, G.S., kand. biolog. nauk, otv. red.; TROFIMOV, F.D., red.; YAGONTSEVA, E.V., tekhn. red.

[Animals of Uzbekistan (vertebrates); a textbook for high school teachers] Zhivotnye Uzbekistana (pozvonochnye); posobie dlia uchitelei srednei shkoly. Tashkent, Gos. izd-vo "Sredniaya i vysshaia shkola" UzSSR, 1961. 314 p. (MIRA 15:1)

1. Zaveduyushchiy laboratoriyey ekologii yadovitykh zmey Instituta zoologii i parazitologii AN Uzbekskoy SSR (for Bogdanov). (Vertebrates)

SOV-135-58-9-4/20

AUTHORS: Semyachkin, S. Ye. and Trofimov, F.G., Engineers

TITLE: Welding Plastics With High Frequency Current (Svarka plasticheskikh mass tokami vysokoy chastoty)

PERIODICAL: Svarochnoye proizvodstvo, 1958, Nr 9, pp 9-11 (USSR)

ABSTRACT: Information is presented on new, special equipment used for welding thermoplastics with high frequency current. The following devices and their operation are described: "LGS-O2" machine (fig. 1) and "MST-3M" machine (fig. 3) for roller welding; "LGSP-0.4" press (fig. 4) for press welding. Characteristics of the machines are given in table 1. Information includes description of methods for checking the tightness of seams and of the base material by: 1) electric spark method on a special device shown in fig. 6; 2) use of a 2% aqueous solution of fuchsin; 3) electrolytic method. There are 2 tables, 3 diagrams, 1 circuit diagram and 3 photos.

1. Plastics--Welding 2. Plastics--Bonding 3. High frequency currents--Applications

Card 1/1

SEMYACHKIN, S.Ye., inzh.; TROFIMOV, F.G., inzh.

Welding of plastics with use of high frequency currents. Svar. proizv.
no.9:9-11 8 '58. (MIRA 11:9)

(Plastics--Welding)

MEL'NIKOV, A.I.; TROFIMOV, F.T., mekhanik tkatskoy fabрики; MILOSERDOV, I.V.
master po remontu oborudovaniya.

Useful brochure about bearing alloys "Zinc base bearing alloys and
their use in light industry" By A.V. Mastriukov, V.P. Gusev. Reviewed
by A.I. Mel'nikov, F.T. Trofimov, I.V. Miloserdov). Tekst.prom.16
no.10:69-70 O '56. (MIRA 10:1)

1. Nachal'nik remontno-montashnogo otdela Moninskogo kombinata (for
Mel'nikov).

(Bearings) (Mastriukov, A.V.)

(Gusev, V.P.)

TROPIMOV, G. (g. Brest); OLEYNIKOV, E. (Leningrad).

Flowers for our friends. IUn.nat. no.7:4-5 J1 '57. (ILVA 10:8)
(Flowers)

TROFIMOV, G.

Whose yard will be better? Zhil.-kom.khoz. 11 no.6:9/10 Je '61.
(MIRA 14:7)

1. Nachal'nik otdela zhilishhnogo khozyaystva Ministerstva
mestnogo khozyaystva, Tallin, Estonskoy SSR.
(Estonia--Landscape gardening)

ZUBKOV, V., inzh.; TROFIMOV, G., inzh.

Building foundations for the underwater part of a slipway
with compacted sand. Rech. transp. 21 no.6:41-42 Je '62.

(MIRA 15:7)

(Hydraulic engineering)

TROFIMOV, G., konstruktor, inzh.-mekhanik

Mechanized hatch covers. Mor.flot 19 no.4:17-18 Ap '59.
(MIRA 12:6)

1. Tsentral'noye konstruktorskoye byuro sudostroitel'noy
promyshlennosti.

(Ships--Equipment and supplies)

TROFIMOV, G.

Housing in Estonia is on the increase. Zhil.-kom. khoz. 11
no.12:6-7 D '61. (MIRA 16:11)

1. Nachal'nik otдела zhilishchnogo khozyaystva Ministerstva mest-
nogo khozyaystva Estonskoy SSR, Tallin.

TROFIMOV, G., inzh.-mekhanik

General hydraulic systems on ships. Mor. flot 21 no.8:30-31
Ag '61. (MIRA 14:9)
(Hydraulic machinery) (Ships--Equipment and supplies)

DAROVSKIKH, G.T.; TROFIMOV, G.A.

Improved methodology for rubber bromination. Kauch. i rez. 22 no.
11:49-50 N '63. (MIRA 17:2)

1. Leningradskiy tekhnologicheskii institut im. Lensoвета.

LANDA, A.L., prof.; KRYLOV, A.A., kand.med.nauk; TROFIMOV, G.A.

Diagnosis of chronic cholecystitis and the clinical importance
of some methods of studying the bile. Kaz.med.zhur. no.3:17-19
My-Je '62. (MIRA 15:9)

1. Kafedra fakul'tetskoy terapii No.2: (nachal'nik - prof. A.L.
Landa) Voenno-meditsinskoy ordena Lenina akademii imeni S.M.
Kirova.

(BILE) (GALL BLADDER--DISEASES)